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XP-002136999

AN - 1995-041769 [38]

AP - JP19930112964 19930514; JP19930112964 19930514; [Previous Publ. J06322615]

CPY - NIDE

DC - E36 F01 L02 L03

DR - 1669-P 1778-U

FS - CPI

IC - C01B31/02 ; D01F9/12 ; D01F9/127

MC - E31-N01 F01-D09A L02-H04A L03-A02B N02 N03 N04-A

M3 - [01] C106 C810 M411 M720 M903 M904 M910 N104 N120 N209 N212 N213 N221 N222 N441 N442 Q323 Q453 Q454 R042; R01669-P; 1669-P

- [02] A300 A400 A500 A940 C106 C730 C810 M411 M730 M903 Q421

PA - (NIDE) NEC CORP

PN - JP6322615 A 19941122 DW199506 D01F9/12 006pp

- JP2526782B2 B2 19960821 DW199638 D01F9/12 006pp

PR - JP19930112964 19930514

XA - C1995-019103

XIC - C01B-031/02 ; D01F-009/12 ; D01F-009/127

AB - J06322615 Carbon-fibre comprises a graphite sheet comprising six membered carbon ring structure as the main structure.

- The carbon fibre pref. has less than 3nm of dia.. Prepn. of the aforementioned carbon fibre comprises sending hydrocarbon as raw gas in arc discharge plasma comprising mainly inert gas, and forming a carbon fibre by pyrolysing it in the presence of gaseous catalyst substance. The catalyst is (transition) metal or (transition) metal carbide. Prepn. of the carbon fibre can be obtd. carbon nano-tube comprising single layer cylindrical graphite sheet different from conventional carbon nano-tube. Dia. of the carbon nano-tube is less than 3nm, almost all of it is 1nm.

- USE/ADVANTAGE - Single layer spiral cylindrical structure carbon fibre is useful for electronic device. In the single layer graphite sheet, approximate uniform dia. of carbon nano-tube is obtd., so control of electric characteristics of the carbon nano-tube is simplified. By making the single layer carbon nano-tube to nuclei, and growing newly graphite cylinder on the surface of the single layer carbon nano-tube, mfg. of carbon nano-tube which is controlled number of the cylinder is developed.(Dwg.0/6)

CN - R01669-P

DRL - 1669-P

IW - CARBON@ FIBRE MANUFACTURE ELECTRONIC DEVICE COMPRISE GRAPHITE SHEET SIX MEMBER CARBON@ RING STRUCTURE MAIN STRUCTURE

IKW - CARBON@ FIBRE MANUFACTURE ELECTRONIC DEVICE COMPRISE GRAPHITE SHEET SIX MEMBER CARBON@ RING STRUCTURE MAIN STRUCTURE

NC - 001

OPD - 1993-05-14

ORD - 1994-11-22

PAW - (NIDE) NEC CORP

TI - Carbon@ fibre for mfr. of electronic device - comprises graphite sheet with six membered carbon@ ring structure as main structure